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	Document ID	Issue Date	Title	Current OR	Inventor
1	US 20030154404 A1	20030814	Policy engine for modular generation of policy for a flat, per-device database	713/201	Beadles, Mark A. et al.
2	US 20030144975 A1	20030731	Information processing system and method for same	706/45	Kawamura, Takahiro et al.
3	US 20030140308 A1	20030724	Mechanism for mapping XML schemas to object-relational database systems	715/500	Murthy, Ravi et al.
4	US 20030028621 A1	20030206	Presence, location and availability communication system and method	709/219	Furlong, Patrick Shane et al.
5	US 20020174125 A1	20021121	Messaging infrastructure for identity-centric data access	707/100	Lucovsky, Mark et al.
6	US 20020161674 A1	20021031	Method for fulfilling an order in an integrated supply chain management system	705/28	Scheer, Robert H.
7	US 20020147774 A1	20021010	Content storage and replication in a managed internet content storage environment	709/203	Lisiecki, Philip A. et al.
8	US 20020143888 A1	20021003	Scalable, high performance and highly available distributed storage system for internet content	709/214	Lisiecki, Philip A. et al.
9	US 20020143798 A1	20021003	Highly available distributed storage system for internet content with storage site redirection	707/200	Lisiecki, Philip A. et al.
10	US 20020143669 A1	20021003	Method for managing inventory within an integrated supply chain	705/28	Scheer, Robert H.
11	US 20020143598 A1	20021003	System for providing integrated supply chain management	705/9	Scheer, Robert H.
12	US 20020138358 A1	20020926	Method for selecting a fulfillment plan for moving an item within an integrated supply chain	705/26	Scheer, Robert H.
13	US 20020133535 A1	20020919	Identity-centric data access	709/201	Lucovsky, Mark et al.
14	US 20020100036 A1	20020725	Non-invasive automatic offsite patch fingerprinting and updating system and method	717/173	Moshir, Sean et al.
15	US 20020099466 A1	20020725	Circuit Production method	700/121	Diggin, William et al.
16	US 20020095644 A1	20020718	Web based tool control in a semiconductor fabrication facility	716/3	Weiss, Mitchell
17	US 20020066074 A1	20020530	Method and system for developing and executing software applications at an abstract design level	717/105	Jabri, Mohamed I.
18	US 20010042126 A1	20011115	Methods and systems for controlling access to presence information according to a variety of different access permission types	709/229	Wong, Leon C. et al.
19	US 6580961 B2	20030617	Circuit production method	700/121	Diggin, William et al.

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Moreau, L.;

Cluster Computing and the Grid 2nd IEEE/ACM International Symposium CCGRID2002, 21-24 May 2002

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- 1 [Retrieval effectiveness of an ontology-based model for information selection](#) 100%
 [Latifur Khan , Dennis McLeod , Eduard Hovy](#)
The VLDB Journal — The International Journal on Very Large Data Bases
January 2004
Volume 13 Issue 1
Technology in the field of digital media generates huge amounts of nontextual information, audio, video, and images, along with more familiar textual information. The potential for exchange and retrieval of information is vast and daunting. The key problem in achieving efficient and user-friendly retrieval is the development of a search mechanism to guarantee delivery of minimal irrelevant information (high precision) while insuring relevant information is not overlooked (high recall). The tradi ...
- 2 [Document based architecture & applications: UpLib: a universal personal digital library system](#) 100%
 [William C. Janssen , Kris Popat](#)
Proceedings of the 2003 ACM symposium on Document engineering November 2003
We describe the design and use of a personal digital library system, UpLib. The system consists of a full-text indexed repository accessed through an active agent via a Web interface. It is suitable for personal collections comprising tens of thousands of documents (including papers, books, photos, receipts, email, etc.), and provides for ease of document entry and access as well as high levels of security and privacy. Unlike many other systems of the sort, user access to the document collection ...
- 3 [Cross-lingual information retrieval: Automatic transliteration for Japanese-to-English text retrieval](#) 100%
 [Yan Qu , Gregory Grefenstette , David A. Evans](#)
Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval July 2003
For cross language information retrieval (CLIR) based on bilingual translation dictionaries, good performance depends upon lexical coverage in the dictionary. This is especially true for languages possessing few inter-language cognates, such as between Japanese and English. In this paper, we describe a method for automatically creating and validating candidate Japanese

transliterated terms of English words. A phonetic English dictionary and a set of probabilistic mapping rules are used for autom ...


- 4** Web: Building a web thesaurus from web link structure

 Zheng Chen , Shengping Liu , Liu Wenyin , Geguang Pu , Wei-Ying Ma
Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval July 2003
 Thesaurus has been widely used in many applications, including information retrieval, natural language processing, and question answering. In this paper, we propose a novel approach to automatically constructing a domain-specific thesaurus from the Web using link structure information. The proposed approach is able to identify new terms and reflect the latest relationship between terms as the Web evolves. First, a set of high quality and representative websites of a specific domain is selected. ...


100%
- 5** Multimodal architectures and frameworks: Architecture and implementation of multimodal plug and play

 Christian Elting , Stefan Rapp , Gregor Möhler , Michael Strube
Proceedings of the 5th international conference on Multimodal interfaces November 2003
 This paper describes the handling of multimodality in the Embassi system. Here, multimodality is treated in two modules. Firstly, a modality fusion component merges speech, video traced pointing gestures, and input from a graphical user interface. Secondly, a presentation planning component decides upon the modality to be used for the output, i.e., speech, an animated life-like character (ALC) and/or the graphical user interface, and ensures that the presentation is coherent and cohesive. We des ...


100%
- 6** Database session 7: bioinformatics: Information extraction from biomedical literature: methodology, evaluation and an application

 L. Venkata Subramaniam , Sougata Mukherjea , Pankaj Kankar , Biplav Srivastava , Vishal S. Batra , Pasumarti V. Kamesam , Ravi Kothari
Proceedings of the twelfth international conference on Information and knowledge management November 2003
 Journals and conference proceedings represent the dominant mechanisms of reporting new biomedical results. The unstructured nature of such publications makes it difficult to utilize data mining or automated knowledge discovery techniques. Annotation (or markup) of these unstructured documents represents the first step in making these documents machine analyzable. In this paper we first present a system called BioAnnotator for identifying and annotating biological terms in documents. BioAnnotator ...

100%
- 7** Architectural components for the efficient design of mobile agent systems

 Marthie Schoeman , Elsabé Cloete
Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology September 2003
 Over the past eighteen months, there has been a renewed interest in mobile agent technology due to the continued exponential growth of Internet applications, the establishment of open standards for these applications, as well as the semantic web developments. However, the lack of a standardised programming model addressing all aspects of mobile agent systems prevents widespread deployment of the potentially useful technology. The architectural requirements dealing with all aspects of a mobile ag ...

100%
- 8** Partial behavioral reflection: spatial and temporal selection of reification


 Eric Tanter , Jacques Noyé , Denis Caromel , Pierre Cointe
ACM SIGPLAN Notices , Proceedings of the 18th ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications October 2003

100%

Volume 38 Issue 11

Behavioral reflection is a powerful approach for adapting the behavior of running applications. In this paper we present and motivate *partial behavioral reflection*, an approach to more efficient and flexible behavioral reflection. We expose the *spatial* and *temporal* dimensions of such reflection, and propose a model of partial behavioral reflection based on the notion of *hooksets*. In the context of Java, we describe a reflective architecture offering appropriate interf ...

9 A comprehensive agent: mediated e-market framework 100%

 Nehemiah Mavetera , Armstrong Kadyamatimba

Proceedings of the 5th international conference on Electronic commerce September 2003

This paper discusses an agent-mediated e-market framework. The framework highlights the different stages and components that require automation and are required for the implementation of a full e-market system using agent technology. Most of these e-market aspects have been discussed, prototypes developed into systems but they exist as separate entities lacking a common protocol for implementation. No attention has been paid to the problem of how e-market component systems can be integrated into ...


10 Using semantic web technology in multi-agent systems: a case study in the TAGA trading agent environment 100%

 Youyong Zou , Tim Finin , Li Ding , Harry Chen , Rong Pan

Proceedings of the 5th international conference on Electronic commerce September 2003

Travel Agent Game in Agentcities (TAGA) is the framework that extends and enhances the Trading Agent Competition (TAC) scenario to work in Agentcities, an open multi agent environment based on FIPA compliant platforms. TAGA uses the semantic web languages and tools (RDF and OWL) to specify and publish the underlying common ontologies; as a content language within the FIPA ACL messages; as the basis for agent knowledge bases via XSB-based reasoning tools; to describe and reason about services. T ...

11 ARMISTICE: an experience developing management software with Erlang 100%

 David Cabrero , Carlos Abalde , Carlos Varela , Laura Castro

Proceedings of the 2003 ACM SIGPLAN workshop on Erlang August 2003

In this paper, some experiences of using the concurrent functional language Erlang to implement a classical vertical application, a risk management information system, are presented. Due to the complex nature of the business logic and the interactions involved in the client/server architecture deployed, traditional development techniques are unsatisfactory. First, the nature of the problem suggests an iterative design approach. The use of abstractions (functional patterns) and compositionality (...


12 Getting and giving information: What is this text about? 100%

 Nicolas Hernandez , Brigitte Grau

Proceedings of the 21st annual international conference on Documentation October 2003

Most work in text retrieval aims at presenting the information held by several texts in order to give entry clues towards these texts and to allow a navigation between them. Besides, a lesser interest is dedicated to the definition of principles for accessing content of single documents. As most information retrieval systems return documents from an initial request made of words, a usual solution consists of presenting document titles and highlighting words of the request inside a passage or in ...

13 XML query processing II: Abstracts of invited industrial track presentations 100%

 Zachary Ives

Proceedings of the 2003 ACM SIGMOD international conference on Management of data June 2003

- 14 XML query processing I: Evaluating probabilistic queries over imprecise data 100%
 [A] Reynold Cheng , Dmitri V. Kalashnikov , Sunil Prabhakar
Proceedings of the 2003 ACM SIGMOD international conference on on Management of data June 2003
 Many applications employ sensors for monitoring entities such as temperature and wind speed. A centralized database tracks these entities to enable query processing. Due to continuous changes in these values and limited resources (e.g., network bandwidth and battery power), it is often infeasible to store the exact values at all times. A similar situation exists for moving object environments that track the constantly changing locations of objects. In this environment, it is possible for databas ...
- 15 Data integration and sharing I: Exchanging intensional XML data 100%
 [A] Tova Milo , Serge Abiteboul , Bernd Amann , Omar Benjelloun , Fred Dang Ngoc
Proceedings of the 2003 ACM SIGMOD international conference on on Management of data June 2003
 XML is becoming the universal format for data exchange between applications. Recently, the emergence of Web services as standard means of publishing and accessing data on the Web introduced a new class of XML documents, which we call *intensional* documents. These are XML documents where some of the data is given explicitly while other parts are defined only intensionally by means of embedded calls to Web services. When such documents are exchanged between applications, one has the choice to ...
- 16 Web technologies: Towards practical reasoning agents for the semantic web 100%
 [A] Ian Dickinson , Michael Wooldridge
Proceedings of the second international joint conference on Autonomous agents and multiagent systems July 2003
 We describe *Nuin*: a flexible agent architecture designed for practical development of agents in Semantic Web applications, based around belief-desire-intention (BDI) principles. We outline the central design features of the platform, and show how the implementation is designed to give maximum flexibility to agent designers, while retaining the overall coherence of the design.
- 17 Groups and organizations: Rich service description for a *smarter lifestyle* 100%
 [A] Patricia Charlton , Myriam Ribiere
Proceedings of the second international joint conference on Autonomous agents and multiagent systems July 2003
 A generally portrayed mobile society vision is captured by the idea of *Intelligent Personal mobile Lifestyle* Assistants that takes on many forms, they help you find your way around the Internet, they might be mobile, they may be socially intelligent and may even communicate emotional responses when you interact with them using learning techniques to filter and match just what you want when you want it. This brings a promise of a *better lifestyle* supported through efficient and pers ...
- 18 Complex relationships and knowledge discovery support in the InfoQuilt system 100%
 [A] A. Sheth , S. Thacker , S. Patel
The VLDB Journal — The International Journal on Very Large Data Bases May 2003
 Volume 12 Issue 1
 Support for semantic content is becoming more common in Web-accessible information systems. We see this support emerging with the use of ontologies and machine-readable, annotated documents. The practice of domain modeling coupled with the extraction of domain-specific, contextually relevant metadata also supports the use of semantics. These advancements enable knowledge discovery approaches that define complex relationships between data that is autonomously collected and managed. The InfoQuilt ...


19 Constraints: An approach to engineer and enforce context constraints in an RBAC 100% environment

Gustaf Neumann , Mark Strembeck

Proceedings of the eighth ACM symposium on Access control models and technologies



June 2003

This paper presents an approach that uses special purpose RBAC constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an RBAC permission which is constrained by one o ...

20 Using the semantic web: Agent-based semantic web services 100% Nicholas Gibbins , Stephen Harris , Nigel Shadbolt**Proceedings of the twelfth international conference on World Wide Web** May 2003

The Web Services world consists of loosely-coupled distributed systems which adapt to ad-hoc changes by the use of service descriptions that enable opportunistic service discovery. At present, these service descriptions are semantically impoverished, being concerned with describing the functional signature of the services rather than characterising their meaning. In the Semantic Web community, the DAML Services effort attempts to rectify this by providing a more expressive way of describing Web ...

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- 21 [Data integrity: The HP time vault service: exploiting IBE for timed release of confidential information](#) 100%
-  Marco Casassa Mont , Keith Harrison , Martin Sadler
Proceedings of the twelfth international conference on World Wide Web May 2003
 Digital information is increasingly more and more important to enable interactions and transactions on the Internet. On the other hand, leakages of sensitive information can have harmful effects for people, enterprises and governments. This paper focuses on the problems of dealing with timed release of confidential information and simplifying its access once public: it is a common issue in the industry, government and day-to-day life. We introduce the "HP Time Vault Service", based on the emerging ...
-
- 22 [Access control with IBM Tivoli access manager](#) 100%
-  Günter Karjoth
ACM Transactions on Information and System Security (TISSEC) May 2003
 Volume 6 Issue 2
 Web presence has become a key consideration for the majority of companies and other organizations. Besides being an essential information delivery tool, the Web is increasingly being regarded as an extension of the organization itself, directly integrated with its operating processes. As this transformation takes place, security grows in importance. IBM Tivoli Access Manager offers a shared infrastructure for authentication and access management, technologies that have begun to emerge in the com ...
-
- 23 [An Internet-based negotiation server for e-commerce](#) 100%
-  Stanley Y.W. Su , Chunbo Huang , Joachim Hammer , Yihua Huang , Haifei Li , Liu Wang , Youzhong Liu , Charnyote Pluempitiwiriyawej , Minsoo Lee , Herman Lam
The VLDB Journal — The International Journal on Very Large Data Bases
 August 2001
 Volume 10 Issue 1
 This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling.






Multiple copies of our server can be installed to complement the services of Web servers.
Each enterprise can install or select a trusted negotia ...

- 24 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web 100%
Reiner Kraft
Proceedings of the 2002 ACM workshop on XML security November 2002
The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...
- 25 Multimodal technologies: Sketching images eyes-free: a grid-based dynamic drawing tool for the blind 100%
Hesham M. Kamel , James A. Landay
Proceedings of the fifth international ACM conference on Assistive technologies July 2002
In this paper we describe one method of transforming a mouse-based graphical user interface into a navigable, grid-based auditory interface. We also report the results of an experiment that tested the effectiveness of a drawing tool for the blind called IC2D that uses this interaction style. The experiment included eight visually impaired participants and eight blindfolded sighted participants. The results show that auditory interpretation of graphics is an effective interface technique for visu ...
- 26 A composable framework for secure multi-modal access to internet services from Post-PC devices 100%
Steven J. Ross , Jason L. Hill , Michael Y. Chen , Anthony D. Joseph , David E. Culler , Eric A. Brewer
Mobile Networks and Applications October 2002
Volume 7 Issue 5
The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...
- 27 Accepted Posters: Beyond broadcast 100%
Kevin Livingston , Mark Dredze , Kristian Hammond , Larry Birnbaum
Proceedings of the 2003 international conference on Intelligent user interfaces January 2003
The work presented in this paper takes a novel approach to the task of providing information to viewers of broadcast news. Instead of considering the broadcast news as the end product, this work uses it as a starting point to dynamically build an information space for the user to explore. This information space is designed to satisfy the users information needs, by containing more breadth, depth, and points of view than the original broadcast story. The architecture and current implementation ar ...
- 28 Full Technical Papers: A reliable natural language interface to household appliances 100%
Alexander Yates , Oren Etzioni , Daniel Weld
Proceedings of the 2003 international conference on Intelligent user interfaces January 2003

As household appliances grow in complexity and sophistication, they become harder and harder to use, particularly because of their tiny display screens and limited keyboards. This paper describes a strategy for building natural language interfaces to appliances that circumvents these problems. Our approach leverages decades of research on planning and natural language interfaces to databases by reducing the appliance problem to the database problem; the reduction provably maintains desirable pro ...

- 29 Session 2: Transforming cyclic schemas into trees 100%
☒ N. Goodman , O. Shmueli
Proceedings of the 1st ACM SIGACT-SIGMOD symposium on Principles of database systems March 1982
- 30 Advanced XML technologies and applications: Consistently updating XML documents using incremental constraint check queries 100%
☒ Bintou Kane , Hong Su , Elke A. Rundensteiner
Proceedings of the fourth international workshop on Web information and data management November 2002
 When updating a valid XML document, an efficient yet light-weight mechanism is needed to determine if the up-date would invalidate the document. Towards this goal, we developed a framework called SAXE, we first analyzed the constraints expressed in XML schema specifications and establish constraint rules that must be observed for an XML document to conform to a given XML Schema. We then classify the rules as relevant for a given update case, that is, we show the minimal set of rules that must be ...
- 31 Session 12C: middle agents: Supporting nomadic agent-based applications in the FIPA agent architecture 100%
☒ Mikko Laukkanen , Heikki Helin , Heimo Laamanen
Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3 July 2002
 A high variety of Quality of Service (QoS) in data transmission over wireless networks creates challenges that have not been adequately addressed in today's Internet-based services. Whereas today's distributed applications may result in treating rapid and extreme changes in QoS as failures, in the nomadic environment comprising wireless data communications we consider them as a usual case. Therefore, the complexity of data transmission should be hidden from the nomadic user and applications and ...
- 32 Session 9A: applications in commerce: A multi-agent platform for a corporate semantic web 100%
☒ Fabien Gandon , Laurent Berthelot , Rose Dieng-Kuntz
Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3 July 2002
 We describe the technical choices and the design of a multi-agents software architecture to manage a corporate memory in the form of a corporate semantic web. We then present our approach to tackle a distributed memory and distributed queries.
- 33 Session 6D: agent analysis and validation: An approach to conforming a MAS into a FIPA-compliant system 100%
☒ Christos Georgousopoulos , Omer F. Rana
Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2 July 2002
 The conversion of a MAS into a FIPA-compliant system (i.e. one that adheres to FIPA standards), is important to support interoperability across different MAS. Supporting such a conversion will also allow system developers to make more effective use of their existing systems. Such a conversion imposes amendments on the system architecture to conform to the new (FIPA) standards, which require extensive code re-writes and testing procedures. We


propose a different approach to achieving FIPA complia ...

- 34 Building and using cultural digital libraries: Primarily history: historians and the search for primary source materials 100%
 Helen R. Tibbo
Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries July 2002
 This paper describes the first phase of an international project that is exploring how historians locate primary resource materials in the digital age, what they are teaching their Ph.D. students about finding research materials, and what archivists are doing to facilitate access to these materials. Preliminary findings are presented from a survey of 300 historians studying American History from leading institutions of higher education in the U.S. Tentative conclusions indicate the need to provi ...
- 35 Programming languages and object technologies: Automated conversion from requirements documentation to an object-oriented formal specification language 100%
 Beum-Seuk Lee , Barrett R. Bryant
Proceedings of the 2002 ACM symposium on Applied computing March 2002
 In software engineering there have been very few attempts to automate the translation from a requirements document written in a natural language (NL) to one of the formal specification languages. One of the major reasons for this challenge comes from the ambiguity of the NL requirements documentation because NL depends heavily on context. We use Contextual Natural Language Processing (CNLP) to overcome the ambiguity in NL, and Two-Level Grammar (TLG) to construct a bridge between a NL requiremen ...
- 36 Coordination models, languages and applications: A comprehensive model for arbitrary result extraction 100%
 Neal Sample , Dorothea Beringer , Gio Wiederhold
Proceedings of the 2002 ACM symposium on Applied computing March 2002
 Within the realms of workflow management and grid computing, scheduling of distributed services is a central issue. Most schedulers balance time and cost to fit within a client's budget, while accepting explicit data dependencies between services as the best resolution for scheduling. Results are extracted from one service in total, and then simply forwarded to the next service. However, distributed objects and remote services adhere to various standards for data delivery and result extraction. ...
- 37 VOIP: A SIP-based conference control framework 100%
 Petri Koskelainen , Henning Schulzrinne , Xiaotao Wu
Proceedings of the 12th international workshop on Network and operating systems support for digital audio and video May 2002
 Conference control has been an area of intensive research over the years but widely accepted robust and scalable solutions and standards are still lacking. The main conference control components are conference management and floor (resource) control. We identify the requirements for conference control and propose a component-based scalable conference control framework employing the Session Initiation Protocol (SIP) and the Simple Object Access Protocol (SOAP). The framework assumes a single cont ...
- 38 Data management issues in electronic commerce: An active functionality service for e-business applications 100%
 M. Cilia , A. P. Buchmann
ACM SIGMOD Record March 2002
 Volume 31 Issue 1
 Service based architectures are a powerful approach to meet the fast evolution of business rules and the corresponding software. An active functionality service that detects events and involves the appropriate business rules is a critical component of such a service-based

middleware architecture. In this paper we present an active functionality service that is capable of detecting events in heterogeneous environments, it uses an integral ontology-based approach for the semantic interpretation of ...

39 An architecture for secure wide-area service discovery

100%

 Todd D. Hodes , Steven E. Czerwinski , Ben Y. Zhao , Anthony D. Joseph , Randy H. Katz

Wireless Networks March 2002

Volume 8 Issue 2/3

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device out of hundreds of thousands of accessible services and devices. This paper presents the architecture and implementation of a secure wide-area Service Discovery Service (SDS). Service providers use the SDS to advertise descriptions of available ...

40 Spoken dialogue technology: enabling the conversational user interface



100%

 **ACM Computing Surveys (CSUR)** March 2002

Volume 34 Issue 1

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

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100%

[A](#) Francisco J. Ricardo**Proceedings of the twelfth ACM conference on Hypertext and Hypermedia** September 2001

This paper is a functional survey of knowledge management systems and characteristics from the standpoint of the contribution and relevance of hypertext to this discipline. There is the description of a typical KM architecture as well as some of the current KM and KM-like systems deployed in production at large corporations. This discussion will introduce the perceptions of KM and then emphasize the role of hypertext systems in tackling problems in processing distributed and collaborative kno ...

42 [Technical Session: Constructing a web-based asynchronous and synchronous collaboration environment using WebDAV and Lotus Sametime](#)

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[A](#) Changtao Qu , Wolfgang Nejdl**Proceedings of the 29th annual ACM SIGUCCS conference on User services** October 2001

In this paper we present our practice of constructing a Web-based asynchronous and synchronous collaboration environment for supporting collaborative distance learning between a German university and a university in Italy. We utilize the recent collaboration-friendly Internet protocol WebDAV to implement a groupware system which can support document-centric asynchronous collaboration activities, e.g., collaborative document authoring, collaborative document management, etc., as well as an indust ...

43 [Efficient computation of temporal aggregates with range predicates](#)

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[A](#) Donhui Zhang , Alexander Markowetz , Vassilis Tsotras , Dimitrios Gunopulos , Bernhard Seeger**Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems** May 2001

A temporal aggregation query is an important but costly operation for applications that maintain time-evolving data (data warehouses, temporal databases, etc.). Due to the large

volume of such data, performance improvements for temporal aggregation queries are critical. In this paper we examine techniques to compute temporal aggregates that include key-range predicates (*range temporal aggregates*). In particular we concentrate on SUM, COUNT and AVG aggregates. This problem is novel; to ...

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⌘ Ty van den Akker , Quinn O. Snell , Mark J. Clement

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As Internet usage proliferates, resource security becomes both more important and more complex. Contemporary users and systems are ill-equipped to deal with the complex security demands of a ubiquitous, insecure network. The YGuard Access Control Model, developed at Brigham Young University, employs set-based access control lists, XML, and a modular architecture to provide users with an intuitive, extensible, and efficient method of controlling access to system resources. The implementat ...

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⌘ Myong H. Kang , Joon S. Park , Judith N. Froscher

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⌘ Donald Kossmann

ACM Computing Surveys (CSUR) December 2000
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Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the stat ...


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⌘ Wenyu Jiang , Jonathan Lennox , Henning Schulzrinne , Kundan Singh


Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video January 2001


We describe the architecture and implementation of our Internet teleph ony test-bed intended to replace the departmental PBX (telephone switch). It interworks with the traditional telephone networks via a PSTN/IP gateway. It also serves as a corporate or campus infrastructure for existing and future services like web, email, video and streaming media. Initially intended for a few users, it will eventually replace the plain old telephones from our offices, due to the cost benefit and new ...


- 49 Mobile agent security with the IPEditor development tool and the mobile UNITY language 100%


 Yasuyuki Tahara , Akihiko Ohsuga , Shinichi Honiden
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 Many people consider that security is one of the biggest problems for practical use of mobile agents that move around the network and do their tasks. In this paper, we assert that this issue can be effectively managed by using IPEditor, the development support tool of mobile multi-agent applications that we have been released, and Mobile UNITY, a formal specification language of mobile agent applications. IPEditor helps developers to design applications with visual supports of agent behav ...
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 Mei Kobayashi , Koichi Takeda
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 In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...
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Patent Assignment Abstract of Title

Total Assignments: 2

Application #: 09977086 **Filing Dt:** 10/12/2001

Patent #: NONE

Issue Dt:

PCT #: NONE

Publication #: 20030084027

Pub Dt: 05/01/2003

Inventors: Christopher Lockton Brandin, Kevin L. Huck, Linda Lee Grimaldi

Title: Control method for an extensible markup language file

Assignment: 1

Reel/Frame: 012759/0213 **Received:** 04/10/2002 **Recorded:** 01/09/2002 **Mailed:** 06/04/2002 **Pages:** 4

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

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Exec Dt: 01/03/2002

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Assignment: 2

Reel/Frame: 013563/0179 **Received:** 12/16/2002 **Recorded:** 08/29/2002 **Mailed:** 04/14/2003 **Pages:** 55

Conveyance: SECURITY INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: NEOCORE INC.

Exec Dt: 08/26/2002

Assignee: BAKER COMMUNICATIONS FUND II (O.P) L.P.

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